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(54) **UNMANNED AERIAL SYSTEM**

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(57) **ABSTRACT**

A multi-propeller unmanned aerial system (UAS) with a wind-resistant software platform that allows for motor support arm rotation, thereby allowing two propellers to move the drone forward and backward, or rotate it, through thrust vectoring, while the other propellers maintain hover. Horizontal movement is possible without losing the level stability necessary for a number of drone-related functions such as aerial photography. The software platform of the UAS provides for the rotational movement of the motor support arm and motors to engage and disengage to allow for tiltrotor control, specifically two motors rotate to advance the UAS forward or reverse while the remaining propellers maintain hover. Propeller guards are provided for safety which do not affect the maximum thrust or flight maneuverability of the drone.